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JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1990/1991

BIENNIAL BUDGET ESTIMATES

SUBMITTED TO CONGRESS JANUARY 1989

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ELECTE JUN 1 4 1989

80SA-QA



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DESTRIBUTION STATEMENT A Appreved for public released Distriction Unlimited Aircraft Procurement, Air Force

DEPARTMENT OF THE AIR FORCE AIRCRAFT PROCUREMENT, AIR FORCE TABLE OF CONTENTS

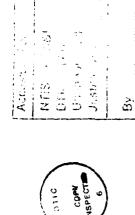
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AIRCRAFT PROCUREMENT, AIR FORCE

layaway; and other expenses necessary for the foregoing purposes including rents and transportation of and installation therefor in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired and construction prosecuted armament, specialized ground handling equipment and training devices, spares parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment thereon prior to the approval of title; reserve plant and Government and contractor-owned equipment For construction, procurement, and modification of aircraft and equipment, including armor and things; \$17,975,000,000, to remain available for obligation until September 30, 1992, of which \$693,600,000 shall be available only for the Air National Guard and Air Force Reserve.

Further, for the foregoing purposes, \$20,628,400,000, of which \$674,500,000 shall be available only for the Air National Guard and Air Force Reserve, to become available for obligation October 1, 1990, and to remain available for obligation until September 30, 1993

for obligation until September 30 1995; and \$10,766,265,000 to become available on October 1, 1993 and to remain available for obligation until September 30, 1996. (10 U.S.C 2271-79, 2353, 2386, 2663, 2672, 2672a, 8013, 8062, 9501-02, 9532, 9741-42; 50 U.S.C 451, 453, 455; Department of Defense available for obligation on October 1, 1991 and to remain available for obligation until September 30, 1994; \$12,896,135,000, to become available for obligation on October 1, 1992 and to remain available Further, for the foregoing purposes, only for multi-year procurement, \$10,456,751,000, to become Appropriation Act 1989; additional authorizing legislation to be proposed).





Budget Plan (amounts for PRUCUREMENT

actions programed)

90,261 2,183,495 3,680,918 20,628,400 20,850,800 1991 ... 178.272 1,321,672 -151,168 20,628,400 20,628,400 1990 est. -68,202 -144,838 3,966,968 18, 188, 100 17,975,000 8,365,940 1,765,957 54,822 2,244,969 1,428,919 17,975,000 213,100 17,975,000 2,275,468 2,994,123 1989 est. -65,955 -140,094 1,619,315 15,619,486 15,825,595 7,635,644 89.840 206,109 15,619,486 995,571 15,922,499 -112,087 112,087 -5, 131 4,362,268 3,445,477 -76,528 -152,046 -989,422 -316,103 -65,919 1988 sctusi 13,059,276 87,200 1,933,207 12,830,528 228,748 221,236 112.087 11,792,407 12,956,827 -938,121 Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget plans Available to finance new budget plans
Reprograming from/to prior year budget plans
Unobligated balance transferred to other accounts Reduction pursuant to P.L. 100-463 Appropriation rescinded (unobligated balance) Transferred to other accounts(-) Recovery of prior year obligations
Unobligated balance available, start of year:
For completion of prior year budget plans Airlift aircraft
Trainer aircraft
Other aircraft
Modification of inservice aircraft
Aircraft spares and repair parts
Aircraft support equipment and facilities 57-3010-0-1-051 Offsetting collections from: Unobligated balance lapsing Non-Federal sources(-) Total direct program Program by activities: Reimbursable program **Budget** authority Federal funds(-) Combat aircraft Budget authority: 1rust funds(-) Direct program: Appropriation Identification code financing: Total 24.4002 24.4003 25.0001 00.0401 21.4002 21.4003 21.4007 1010.10 00.000 1016.00 1000.01 17.0001 1010.00 00,0301 13.0001 14.0001 1000.66 40.0004 40.0017 00.0601 00.020 40.0001

Relation of obligations to outlays:

Appropriation (adjusted)

43.0001

41.0001 42.0001

Transferred from other accounts

20.628.400

17,975,000

15,619,486

11,792,407

-365,782 67,900

-227,711 1,412

Adjustments in unexpired accounts

Obligated balance, start of year Obligated balance, end of year Adjustments in expired accounts Obligations incurred, net 74,4001 77,0001 78,0001 1000.17 72.4001

Aircraft Procurement, Air Force
Program and Financing (in Thousands of dollars) SUMMARY
Obligations

				-	
Identif	Identification code 57-3010-0-1-051	1 🤵		1990 est.	1991 est.
: : : : : :	Program by activities: Direct program:		* 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1	b 1 1 1 1 1 1 1 1 1 1
00.0101	Combat aircraft	4,446,493	7.049.400	7.564.149	10.194.578
00.0301		4.07	6,629	111,035	152,056
00.0401		233,781	88,609	60,511	83,041
00.0501		2.573.962	2.578.248	2,318,449	2,142,385
00.00	Aircraft aupport equipment and facilities	4,139,20	v ~	1,835,13	2 5
00.9101	Total direct program	15,209,914	15,110,233	16,989,671	19,593,340
01.0101	Reimbursable program	295,10	389,08	213,10	222,40
10.0001	Total	15,505,016	15,499,321	17,202,771	19,815,740
	Stranctog: Officettion rollertions from:				
11.0001		-67,306	-65	-68.202	~ 1
13.0001		-141,479	- 140,094	-144,838	897,161-
17.0001	Recovery of prior year obligations	-651,218	3	3	3
21.4002	A CONTRACT OF THE STATE OF THE	-7.857,629	-5,727,387	-6,053,661	-7,038,990
21.4007		774 . 696	180.311		
22.4001	5 5	-65,919	112,087		
24.4002	For completion of prior year budget	5,727,387	6,053,661	7,038,990	8.074.050
25.0001	Unobligated balance labsing		!		
39.0001	Budget authority	11,792,407	15,619,486	17,975,000	20,628,400
	Budget authority:	2 956 B	5 922	7 975 0	678 40r
40.0004	Reduction pursuant to P.L. 100-463				
40.0017	Appropriation rescinded (unobligated balance) Transferred to other accounts(-)	-938,121	-365,782		
42.0001		1,412	67,900		
	Appropriation (adjusted)	1,792,40	15,619.	7.975.0	628,40
	Melation of obligations to outlays:	15 295 8B4	15 293 212	989	46
72.4001	Obligated balance,	29,031,477	27, 391, 258	148.57	8,460
77.0001		-27,391,258	-76,148,570	- 78,460,041	196,861,36-
7 8 .0001	Adjustments in unexpired accounts	-651,218			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1311111111	1991 est.		15,884,800
1 1 1 1 1 1 1 1 1 1	1990 est.		14,678,200
	1989 est.		15,961,482 16,535,900 14,678,200 15,884,800
	1988 #010#1		15,961,482
	Identification code 57-3010-0-1-051		•
	cation code	****	Out lays
,	Ident if	, 1 1 1 1 1 1	90.0001

1

Ofrect obligations: 131.001 Equipment		1988 actual 1989 eat. 1990 eat.	1989 est.	1989 est. 1990 est.	1991
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : : : : : : : : : : : : : : : :	
		15,209,914	15,110,233	16,989,671	19.593.340
ISS.CO. TOTAL CITACT OBIOGRAPONE		15,209,914	15,110,233	16,989,671	19,593,340
Reimbursable obligations: 231.001 Equipment	ations:	i d			
		201, 285	389,088	213,100	222.400
299.001 Total Reimbursable obligations	le obligations	295, 102	369,088	213,100	222,400
999.901 Total obligations		15,505,016	15,499,321	17,202,71	19,815,740

	Aircraft Procur Program and Financing (e dollars) F1SC/	1L YEAR 1986		09 Jan 89
	1		Budget Plan (amounts for PROCUREMENT actions programed)	for PROCURES	
Identification code	30 57-3010-0-1-051	1988 actual	1989 est.	1990 est	1991 est
Program by activing 00.0101 Combat alrera 00.0201 Airlift alrera 00.0201 Airlift alrera 00.0501 Modification 00.0601 Aircraft aupp	Program by activities: Combat sirraft Airlift sirraft Other sirraft Modification of inservice sirraft Airraft speres and repair parts Airraft support equipment and facilities	1 1 1 1 1 1 2 4 5 1 1 1 1 1 1	•		
00.9101 Total d	Total direct program	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
01.0101 Reimbursa	Reimbursable phogram				
10.0001 Total		f	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 1 1 1 1 1 1 1 1
		-312,822 -275,125 -275,125 88,190 221,236			
40.0017 Budget au	Budget authority (Appropriation rescinded) (-278,521			

and the second

Identif	Identification code 67-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 081
•	Proprem by activities:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1
00.0101	Combat a finite at				
00.0201	And a first a series of the se	907,767			
00.0401	Other strongs	124 691			
00.0501	Modification of inservice aircraft	567.469			
00.0601	Aincieft aperes and repair parts	496.004			
00.000	Aircraft Support equipment and facilities	442,835		•	
1016.00	Total direct program	2.430,950		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
1010.10	Reimbursable program	84,486			
10.0001	Total	2,515,436	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1
1L	Financing: Offsetting collections to me.				
11.0001	Federal folds(-)	-			
13.0001	Trust funds(-)	711			
14.0001	(-)#80L308 [#L9D9J-CON	000			
17.0001	Recovery of prior year obligations	-419.645			
	Unobligated balance available, start of year:	•			
21.4002	_	-2,381,337			
21.4003	Available to finance new budget plans	-312,822			
21.4007	Reprograming from/to prior year budget plans	•			
22.4001	Unobilgated balance transferred to other accounts	98,190			
1900 . 67	Unobligated balance tupsing	221,236			
40.0017	40.0017 Budget authority (Appropriation rescinded) (-278,521	1		
	***************************************	117111111111111111111111111111111111111			

	Budget	Budget Plan (amounts for PROCUREMENT	for PROCUREN	CUREMENT
		actions programed)	(pawe	
dest ficetion code 57-3010-0-1-051	1988 BCtue	1989 est.	1990 est.	1991 est.
Program by activities:				
DO. DATO TO DETAIL BETTO BETT				
			•	
00.9101 Total direct program	† † † † † † † † † † † † † † † † † † †	; ; ; ; ; ; ; ; ; ; ;	 	
01.0101 Reimbursable program				
10.0001 Total	E 9 9 9 1 1 6 6 6 6 1 1 1 1 1	; ; ; ; ; ; ; ;	1 1 1 1 1 1 1	
Financing:				
Offsetting collections from: 11.0001 federal funds(-)				
14.000! Non-Federal sources(-) 17.000! Recovery of Brior year obligations				
Unobligated balance available, start				
21,4002 For completion of prior year budget plans	009 959-	113 087		
21.4003 Availabie of thence has budget plans	926.04-			
5	-54, 109	112,087		
Unobilgeted belance available, end of year: 24.4002 for completion of orior year budget blans				
Available to finance subsequent year			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Aircraft Procurement, Air Force
Program and Financing (in Thousands of dollars) FISCAL VEAR 1987

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 2 2 3 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0b11gat1ons	1) } } 1 1 0 1 5 4
Identifi	Identification code 57-30	57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
ā	Program by activities:					
	Direct program:		911 611	000		
00.00	AND COLUMN TO THE PARTY OF THE			1000		
00.020	AITHUR TOTAL		27.075	202.1		
00.040	Model and the second and the second		865.276	604.299		
00 0001	Aircraft source and repair parts	d receipt ourth	432,042	35,734		
00.0701	Aircraft support	Aircraft support aguipment and facilities	1,594,751	428,596	-	ı
1016.00	Total direct program		3,841,075	1,651,769		1
1010.10	Reimbursable program		128,518	36,329		
10.0001	Total		3,969,593	1,688,098	; ; ; ; ; ;	† † † † † †
u.	. 0000000000000000000000000000000000000					
	Offsetting collections from:					
11,0001	Federal funds(-)		9,110			
13,0001	Trust funds(-)		122			
14.0001	Non-Federal sources(-)	18(-)	- 135			
1000.71	Recovery of prior year obligations	ser obligations	-231,573			
	Unobligated balance	thouligated balance available, start of year:				
21.4002	for completion of	prior year budget plans	-5,476,292	-1.688.098		
21.4003	Available to fina	Available to finance new budget plans	-676,600	-112,087		
21.4007	Reprograming from	Reprograming from/to prior year budget plans				
22.4001	Union igated balance transferred to	transferred to other encounts	801 BC-	190'711		
24 4002	Chock termination of	ACCING ACCIDENTS BY STREET OF YEST.	1.688.098			
24.4003	Available to final	Available to finance subsequent year budget plans	112.087			
40.0017	Budget authority (A	Budget authority (Appropriation rescinded) (-659,600	† ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	† † † † † † † † † † † † † † † † † † †
1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1

	Budget	Plan (amounts for actions programed)	Plan (amounts for PROCUREMENT actions programed)	ENT
Identification code 57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est
program by activities: Clear program: Combat attribute	44, CAC A	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ;
からし カール・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・				
Modification of inservice sinceft	1,933,207			
Aircraft acport equipment and facilities	3,445,477		•	
Total direct program	12,830,528	† 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	i i i i i i
Reimbursable program	228,748			
Total	13,059,276	• • • • • • • • • • • • • • • • • • •	1 1 1 1 1 1 1 1	
Financing: Offsetling Collections from:				
Federal funds()	-76,528			
	-152,046			
available, start o				
transferred from o	- 100,000			
Unobliggied beleand eveleble, end of year: For completion of prior year budget bleas		-		
Budget authority	12,730,528			
Budget authority: Appropriation Transferred to other accounts(-) Transferred from other accounts	12,956,827			
Appropriation (adjusted)	12,730,528	! ! ! !	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	

Aircraft Procurement, Air Force
Program and Financing (in Thousands of dollars) FISCAL VEAR 1988

			Ob) igat fons		
Identifi	Identification code 57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
	Program by activities: Direct program:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	#	1 1 5 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
00.0101	Combat aircraft	2,591,669	1,176,562	594,037	
00.0201	Airliff Birgoaft	653,370	255	278	
00.0401		82,029	3,435	1,736	
00.030	Andidund during to the term of	1,346,217	390,055	196,935	
00.000	Aircraft support equipment and facilities	2,101,616	890,983	452,878	
1016.00	Total direct progress	689.759.88	2.586.657	1 305 982	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		•			
1010.10	Reimbursable program	82,098	146,650		1
10.0001	Total	9,019,987	2,733,307	1,305,982	
•	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)	-76,528			
13.0001	Trust tunds(-)	-152,046			
14.0001		-174			
	scailable, start				
22.4001	ror completion of prior year budget plans Unubligated balance transferred from other accounts (-)	100 000	-4,039,289	-1,305,982	
	available, and of year:				
24.4002	_	4,039,289	1,305,982		
39.0001	Budget authority	12,730,528		1 1 1 1 5 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40 0001	••			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	† # # # # # # # # # # # # # # # # # # #
41.0001	Transferred to other accounts(~)	128.000.21			
42.0001	Transferred from other accounts	1.412			
43.0001	Appropriation (adjusted)	12,730,528	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! !	1 1 1 1 1 1
1 1 1 1 1 1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	Budget P	Plan (amounts for actions programed	for PROCUREMENT Bred)	ENT
57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est
0.7		7.635.644 995.571 9.525	\$	1 1 1 1 1 1
00.0401 Other aircraft 100.0501 Modification of inservice aircraft 100.0501 Aircraft spares and repair parts 100.0701 Aircraft support equipment and facti	11108	89.840 2.275.468 2.994.123 1.619.315	-	
00,9101 Total direct program		15,619,486	t t t t t t t t t t t t t t t t t t t	†
01.0101 Reimbursable program				
10.0001 Total		15,825,595	1 1 1 1 1 1 1 6	f
Financing: Offsetting collections from: Offsetting collections from: 13.0001 Federal funds(-) 14.0001 Non-Federal sources(-) 21.4002 For completion of prior year budget Unobligated balance available, start Unobligated balance available, end of 24.4002 For completion of prior year budget	of year: plans year: plans	-65,955 -140,094 -60		
39.0001 Budget authority		15,619,486		
Budget authority: Appropriation A Reduction pursuant to P.L. 1 I ransferred to other account I transferred from other account		15,922,499 -5,131 -365,782 67,900		
43.0001 Appropriation (adjusted)		15,619,486		

Aircraft P. ocurement, Air Force
Program and Financing (in Thousands of dollars) FISCAL VEAR 1989
Obligations

Identification code	n code 57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Progra	Program by activities:			1 1 1 1 1 1 1	
0110	Unicont Diographs:		213 600	1 6.40 033	274 012
	CONC		80.00 COS	201 214	100.858
	Transfer and the second of the		6.629	1.930	996
00.0401 01	Other strongft		62,535	18,203	9,102
	Modification of inservice aircraft		1.583.894	461,049	230,525
	Aircraft spares and repair parts		2.084.928	606, 129	303,066
00.0701 A1	Aircraft support equipment and facilities		1,127,223	328,061	164.031
00.9101 To	Total direct program		10,871,807	3,165,119	1,582,560
01.0101 Reim	Reimbursable program		206,109		
10.0001 To	Total		916,770,11	3,165,119	1,582,560
Financing: Offsetti: 11.0001 Federa 13.0001 Trust 14.0001 Non-Fe	nancing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-)		-65,955 -140,094 -60		
5	start o budget			-4,747,679	-1,582,560
Unab 24.4002 Fo	Underligated balance available, end of year: For completion of prior year budget plans		4,747,679	1,582,560	
1000.66	Budget sutherity		15,619,486		
9	Budget authority:		15,922,499		
40.0004 Ke 41.0001 Tr 42.0001 Tr	Reduction pursuant to P.L. 100-403 Transferred to other accounts(-) Transferred from other accounts		-365,782 -365,782 67,900		
43.0001	Appropriation (adjusted)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15,619,486	1 1 1 1 1 1 1 1 1 1	• • • • • • • • • • • • • • • • • • •

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Ē	dollars)	FISCAL YEAR 1990		69 um 60
	2 = 5 p > 6	Pla	n (amounts for PROCUREMENT fons programed)	ENT
Identification code 57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5			R 365 940	
			1,765,957	
			147,425	
CONCOLOR STATEMENT OF STATEMENT			54,822	
			2.244.969	
Alichert Boarde Bod repair parts			3,966,968	
SOLD THE TENED TO BE TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL			1,428,919	
00.9101 Total direct program	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	17.975.000	4 1 1 1 1 1 1 1
01.0101 Reimbursable program			213,100	
	1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* 1
			18, 186, 100	
financing:				
OFTERENT FILES TO THE TOTAL TOT			,	
			-68,202	
14.000 Non-Faderal #0001			-144.838	
5			09.	
Unobligated balance available, end of year: 24.4002 For completion of prior year budget plans				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*********
40.0001 Budget authority (Appropriation)			17,975,000	

		•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 3 1 1 (
Identification code	it for code	57-3010-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Pro	Program by activities Direct program:		! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !			
1010.00	Combat aircraft				5,422,079	2,366,559
00.0201	Airlift aircraft				1,303,230	235,836
00.0301	Trainer sincraft	Graft			109,105	19,146
00.0401	Other aircraft				40.572	7,120
00.0501	Modificatio	Modification of inservice sincraft			1,660,465	293,268
00.0601	Aircraft s	Aincraft spares and repair parts			2,928,926	524,315
10/0.00	Aircraft S	Arichaft support sociosent and facilities			1,054,193	9/6,191
1016.00	Total direct program	:t program			12,518,570	3,637,620
01.0101 R	Reimbursable program	program			213,100	
100001	Total		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	12,731,670	3.637,620
 L	Financing:					
100011	prior further i	:EO : 4 (10) 4 (10) 10			-68 202	
1000	Trust funds(-)				-144.838	
1000 71	Non-Federa	Noo-federal sources(-)			09-	
3	Inobligated i	Unobligated balance available, start of year:				
71 4002	For comple	For completion of prior year budget plans				-5,456,430
U 24.4002	Inobilgated balance For completion of	Unobligated balance available, end of year: For completion of prior year budget plans			5,456,430	1.818,810
40.0001 B	Judget author	Budget authority (Appropriation)	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17,975,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

000	1990 est.	1989 est.	1989 BC (CB)	57-3010-0-1-051	Identification code 57-3010-0-1-051
AENT	for PROCURES	Budget Plan (amounts for PROCUREMENT actions programed)	Budget 7		
09 Jen 89		L YEAR 1991			Progra
		•			

Identifi	Identification code 57-3010-0-1-051	1988 actual 1989 est.	1989 est.	1990 est.	1991 est.
00.0101	Program by activities: Direct program: Combat aircraft			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,752,409
00.0301 00.0401 00.0501 00.0601	Airing Bincherg Trainer Bincheft Other Bincheft Modification of inservice Bincheft Aircreft spenes and repair perts Aircreft support equipment and facilities			-	2,421,353 178,272 90,281 2,183,495 3,680,918 1,321,672
1016.00	Total direct program			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20,628,400
10.0001	Reimbursable progress Total				222,400
11,0001 13,0001 14,0001 24,4002	Financing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Unobligated balance available, end of year: For completion of prior year budget plans				-71,172 -151,168 -60
40.0001	40.0001 Budget authority (Appropriation)	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 8 1 1 1 1 8 8	20,628,400

	-		1			
Identif	Identification code 57-3010-0-1-051		1988 actual	1989 est.	1990 est.	1991 est.
	Program by activities:		,	, 1 9 1 1 8 8 8 1 1 1	1	1 1 1 1 1 1 1 1 1
00.0101						7,054,007 1,795,958 131,944
00.0501 00.0601 00.0701	Modification of inservice aircraft Aircraft spares and repair parts Aircraft support equipment and facilities	aircraft parts and facilities			•	66,819 1,618,592 2,730,014 975,826
1016.00	Total direct program			• • • • • • • • • • • • • • • • • • •	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14,373,160
10.0001	Reimbursable program Total			, 6 8 1 1 1 1 1	1 1 1 5 2 1 1	222,400
11.0001 13.0001 14.0001	Financing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-)	•				-71,172 -151,168 -60
24.4002	For completion of prior Budget authority (Appropr	year budget plans				6,255,240

(In Thousands of Dollars)

Program Estimate - FY 90 8,365,940

Program Actual - FY 89 7,635,644

Program Actual - FY 88 4,362,268

ACTIVITY: Combat Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and other peculiar training and support equipment for modernization of the U.S. combat forces and to improve the efficiency of training programs.

be used to counter a variety of threats and offer options of response ranging from the use of diversified provide reconnaissance of enemy forces, and furnish close air support to ground forces. The aircraft can Combat aircraft are required to attain and maintain air superiority, interdict enemy supply lines, conventional weapons through, in the case of U.S. forces, a variety of nuclear weapons. The FY 1990 and FY 1991 programs include funds for the procurement of B-2, classified programs, F-15, F-16, MC-130H, and the AC-130U Gunship. The programs also include funds for procurement of flight simulators for F-15 and F-16 aircraft. The B-2, F-15, and F-16 requests are for multiyear procurements.

PART II JUSTIFICATION OF FUNDS REQUESTED

The FY 1990 and FY 1991 funding requirements for procurement of combat aircraft, related support items, and advance procurement in support of the following year's program are: FY 1990 - \$8,365.9 million; FY 1991 - \$10,752.4 million. Details are as follow:

B-2 Advanced Technology Bomber

strategic roles. Deployment of the B-2 will address the national requirement to increase our targeting flexibility, to redress the relative decline of our strategic capabilities, and to revitalize our strategic The B-2 is a multirole strategic weapons system with exceptional range and payload capabilities which is able to perform missions of conventional and nuclear weapons delivery system in both tactical and deterrent forces.

Classified Programs

Classified programs data and detail will be provided through classified channels.

F-15C/D/E (FY 1990 - 36 aircraft, \$1,465,7 million; FY 1990 - 36 aircraft, \$1,439.7 million);

maneuverability in air-to-air combat. Its two Pratt & Whitney F-100 turbofan engines are each capable of thrust in the 25,000 1b. class. The F-15 is able to reach a dash speed of Mach 2.5. It is equipped with a balanced mix of medium and short range missiles and the M-61 20mm cannon. The F-15 A-D is the primary air superiority fighter in the tactical air forces. Future effectiveness in the air superiority mode will be improved by employment of AMRAAM. The F-15E retains the basic air superiority capability and has air-tosurface weapons capability, as well. The F-15E configuration includes a two man crew with missionized cockpits, Low Altitude Navigation, Targeting, and Infrared for Night (LANTIRN) capability, automatic The F-15 is a twin engine, single crew, fixed swept wing aircraft designed specifically for high terrain following/terrain avoidance (auto TF/TA), and other air-to-ground improvements.

F-16C/D (FY 1990 - 150 aircraft, \$3,012,1 million; FY 1991 - 150 aircraft, \$2,855,1 million);

design also includes a high visibility, high "g" cockpit. The F-16 armament consists of a 20mm cannon, AIM-9L heat seeking air-to-air missiles, and approximately 11,000 pounds of conventional and guided air-tosurface ordinance. The F-16 is replacing F-4s in the active inventory, as well as, modernizing the reserve aircraft. The design, optimized for the .8 Mach to 1.6 Mach speed range, incorporates advanced technology features to enhance its combat capability while minimizing its acquisition, operating and support costs. The F-16 Multimission Fighter is a single seat, fixed wing, high performance, single engine fighter The advanced technology features include a blended wing-body and a fly-by-wire flight control system.

MC-130 (FY 1990 - 2 aircraft, \$236.7 million: FY 1991 - \$43.8 million):

navigator, electronic warfare officer, and two loadmasters. Aircraft features include an integral ramp and a ferry range of approximately 4,200NM; a service ceiling of 35,000 feet, and a cruise speed of 290 knots. Its cargo compartment length, width and height are 41, 10, and 9 feet, respectively. It can carry a payload of 25,000 pounds. The normal crew of seven consists of a pilot, a copilot, flight engineer, one de-icing system, single-point refueling, and auto pilot. Additional features of this specially modified C-130 are precision navigation with an infrared detection system, terrain following/terrain avoidance cargo door, a pressurized crew and cargo compartment, ground and in-flight air conditioning, thermal This aircraft is a medium size tactical transport powered by four T-56-A-15 turboprop engines. radar, electronic counter measures (ECM) subsystems and in-flight refueling.

AC-130U (FY 1990 - 5 aircraft, \$239,0 million; FY 1991 \$0);

time periods, and to perform these tasks in night adverse weather conditions. Where practical every effort will be made to adapt off-the-shelf equipment, and to the maximum extent, these subsystems will be common lighting, trainable weapons, and secure communications systems. These subsystems will provide the gunship The basic aircraft is a C-130H powered by four T-56-A-15 turboprop engines. The AC-130U aircraft will subsystems will include precision navigation, target acquisition radar, fire control computers integrated on the 1553B data base, electronic countermeasures, infrared countermeasures, aerial refueling, covert the capability to strike targets with surgical accuracy, to loiter safely in the target area for extended have an enhanced capability, improved reliability, and maintainability, more survivability than the existing AC-130H aircraft and be more deployable than the older AC-130A gunships. The new aircraft with systems on other Air Force SOF aircraft.

\$2,421,353 1,765,957 995,571 654,200
1s of Dollars) - FY 91 - FY 90 - FY 89 - FY 88
(In Thousands Program Estimate Program Actual Program Actual
Prog Prog Prog

ACTIVITY: Airlift Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft and support items to continue improvement of the U.S. airlift forces. The FY 1990 and FY 1991 programs include funds for the procurement of C-17 and C-27A aircraft.

PART II JUSTIFICATION OF FUNDS REQUESTED

and advance procurement funding in support of the following year's program are: FY 1990 - \$1766.0 million; The FY 1990 and FY 1991 fund requirements for procurement of airlift aircraft, related support items, FY 1991 - \$2421.4 million. Details are as follow:

C-17 (FY 1990 - 6 aircraft, \$1,691,6 million; FY 1991 - 10 aircraft, \$2,345,2 million);

in both the inter and intratheater environments. The aircraft is equipped with receiver inflight refueling capability to increase its range/payload capability. Configuration variations will permit the aircraft to air deliver a variety of outsize/oversize combat/support equipment. An important aircraft characteristic is the flexibility to perform either the airland or airdrop/extraction mission. The C-17A design employs the full spectrum of airlift missions and is specifically designed to effectively and efficiently operate The C-17A is a multi-engine turbo fan wide body aircraft capable of airlifting a substantial payload equipment/cargo into and within an austere airfield environment. The C-17 will be capable of performing much existing technology, i.e., FAA certified commercial engines and current civil/military avionics. over intercontinental ranges without refueling and is specifically designed to move outsize combat

C-27A (FY 1990 - 5 aircraft, \$74.4 million; FY 1991 - 5 aircraft, \$76.2 million);

Short-Takeoff-and-Landing (STOL) aircraft for U.S. Southern Command. The aircraft will be used for daily intratheater airlift requirements in an area where the transportation infrastructure, including developed rapidly deliver troops and cargo into forward areas where only short runways or dirt strips are available The aircraft will be used for daily and no other aircraft can operate. The C-27A will be an off-the-shelf aircraft, procured competitively. The C-27A Airlift Aircraft program was established to procure a new tactical airlift, light-utility, airfields, is virtually nonexistent in terms of providing force mobility. The aircraft will be able to

	\$ 178,272	147,425	9,525	0
of Dollars)	- FY 91	- FY 90	- FY 89	- FY 88
(In Thousands	Program Estimate	Program Estimate	Program Actual - FY 89	Program Actual
	Pro	Pro	Pro	Pro

ACTIVITY: Trainer Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and support equipment required for flight training.

PART II JUSTIFICATION OF FUNDS REQUESTED

TTTS (FY 1989 - 14 Aircraft, \$147.4 million: FY 1991 28 Aircraft, \$178.3 million

coordination, asymmetric thrust situations, low-level navigation, airdrop fundamentals, airborne rendezvous, and cell formation. This program also provides procurement of Operation Flight Trainers (OFT) accommodate an instructor and two students. Under SUPT, students will enter the Tanker-Transport (TT) track or the Bomber-Fighter (BF) track after 85 hours in the T-37 aircraft. The T-38 will be used in the The Tanker Transport Training System (TTTS) is required to implement Specialized Undergraduate Pilot Training (SUPT) in Air Training Command. The TTTS includes commercially available jet aircraft which BF track. The IT syllabus includes training in high and low altitude instrument approaches, crew and other required training devices. (In Thousands of Dollars)
Program Estimate - FY 91 \$90,281
Program Actual - FY 89 89,840
Program Actual - FY 88 87,200

ACTIVITY: Other Mircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of MH-60G helicopter and Civil Air Patrol aircraft in FY 1990 and FY 1991, and long lead advance procurement for E-8B aircraft in FY 1991.

PART II JUSTIFICATION OF FUNDS REQUESTED

The FY 1990 and FY 1991 funding requirements for procurement of other aircraft equipment, related support equipment, and advance procurement funding in support of the following year's program are: FY 1990 - \$54.8 million; FY 1991 - \$90.3 million. Details are as follows:

MH-60G (FY 1990 - 4 Aircraft, \$52,8 million; FY 1991 - 4 aircraft, \$33.0 million)

The MH-60G is capable of a wide range of mission tasking in day and night Visual Meteorological Conditions (VMC) including marginal weather operations. The MH-60G is not capable of operations in adverse weather extended range, precision low-level tactical navigation, and improved communication and weapon systems. requirements. To upgrade combat mission capability, flexibility, and survivability, the MH-60G has The MH-60G is a substantially upgraded UH-60A designed to meet a variety of Air Force mission conditions.

Civil Air Patrol Aircraft (FY 1990 - 38 aircraft, \$2.0 million; FY 1991 - 38 aircraft, \$1.8 million):

(CAP). CAP is a private, nonprofit corporation which functions as an official civilian auxiliary of the These funds will procure commercial new or used propeller driven aircraft for the Civil Air Patrol CAP's best known Air Force mission is search & rescue. Air Force.

E-8B (FY 1991, \$55.5 million):

The Joint Surveillance Target Attack Radar System (Joint STARS) is an Air Force/Army program to field a which to detect and track enemy ground forces from the friendly side of the Forward Line of Own Troops. The airborne element consists of E-8 aircraft (modified Boeing 707s) carrying radar, operations and control perform targeting and communications, command, control and intelligence functions. Using its multi-mode strategy. The system has both airborne and ground elements to provide the "electronic high ground" from radar capability for wide-area Moving Target Indication (MTI) surveillance and Fixed Target Indication (FII), Joint STARS supports the end-to-end engagement process from initial detection of moving ground consoles, and communications equipment. The ground element consists of Ground Station Modules which common radar and attack system to support the Air Land Battle and the Follow-On Forces Attack (FOFA) vehicles to the precise attack with conventional weapons against a variety of targets. (in Thousands of Dollars)

Program Estimate - FY 91 \$ 2,183,495

Program Actual - FY 89 2,275,468

Program Actual - FY 89 1,933,207

ACTIVITY: Modification of in Service Aircraft

PART I PURPOSE AND SCOPE

service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory This budget activity provides for modification and modernization of in-service aircraft, training devices and support equipment necessary for safety, extension of service life, and to incorporate operational improvements at the most modern configuration level at the minimum cost.

PART II JUSTIFICATION OF FUNDS REQUEST

support forces to maintain superiority over hostile forces, to extend the active crews and to enhance capabilities of defense, tactical so that only those most essential service life of aircraft, and to keep abreast of changing mission requirements. Modifications Modifications are necessary to enable the strategic offense, are necessary. ensure maximum safety for the aircraft and modifications established accomplished with the limited funds available. examined and priorities aircraft in a combat environment,

Funding is significant effort included to improve aircraft survivability in a hostile environment an aging aircraft previousiy initiated modifications as well as new start modifications. There The FY 1990/1991 programs consist of follow-on requirements for by upgrading the electronic defensive capabilities on various aircraft. also requested to continue enhancement of peacetime readiness of inventory. Significant efforts include: (1) Modification to provide NAVSTAR Global Positioning System capability will begin on the F-16, KC-10, E-4, A-10, F-4, C-135, E-3, and MH-60

- (2) F-15 C/D Multi-Stage Improvement Program (MSIP).
- Enhancements of Special Operations Forces (SOF) aircraft. (3)
- improve operational readiness by replacing high failure, upgrade 40 aircraft Avionics Modernization Program for F/FB-111 high cost, and technologically outdated components. navigation system
- Incorporation of the AN/ALQ-165 Airborne Seif-Protection Jammer into F-18 C/D Block 40/50 aircraft.
- Replacement of the Malfunction Detection, Analysis and Recording System (MADARS) with state-of-the-art electronics on C-5A aircraft.
- Radar Warning Receiver Update Program for the F-4 weapon system. (2)
- Re-engining additional KC-135 tankers to reduce the airborne (8)
- Enhancement of E-3 by incorporating the Electronics Support Measures (ESM) system.

Aircraft modification kits are procured on a phased basis, lead time away from installation which is scheduled concurrently with normal depot maintenance programs to the maximum extent possible. Complex modifications are installed at Air Force depots contractor facilities. Where the installation tasks are less complex or require a personnel or specialized teams dispatched from the depot or provided by contractors. δ relatively small number of man-hours, they are accomplished in the field

procurement for modification aggressively pursued the use of existing modern hardware to The Air Force remains committed to using the pressure of the competitive marketplace modifications. It has provided firm fixed priced contracts at more attractive prices. hardware to control costs and maximize the benefits from the resources provided and competitive components Force has aging aircraft to control costs.

(ILS) and engine icing. FY 1990 program initiates the Short Range Attack Missile (SRAM) II, 1112 improvement and Anti-Icing modifications. The FY 1991 program deficiencies the Filght Director Computer Optimization, Exhaust Nozzie Wear improvement identified on the production line as well as funding to incorporate protection for million; FY 1991 - \$108.7 million). The FY 1990/1991 vital systems based on lessons learned attributed to the instrument Landing program continues funding to incorporate modifications to correct and Engine Upgrade modifications. - \$73.3 B-1B (FY 1990 initiates

equipment for the B-52H, integration of internal Air Launched Cruise Missile Carriage continuation of modifications for the ALQ-172 electronic countermeasures capability, NAVSTAR Global Positioning System and the Very Low Frequency/Low Frequency FY 1990 initiates funding for the weapon system B-52 (FY 1990 - \$218.7 million; FY 1991 - \$74.3 million). The FY 1990 (VLF/LF) Miniature Receive Terminals. trainer Block I update.

FY 1991 Initiates funding for a reliability/maintainability improvement to System Trainer The FY 1991 program continues funding for the VLF/LF Miniature Receiver Terminals, ALQ-172 electronic countermeasures equipment and Weapon Transformer Rectifier Units. FY 1990 provides funding ongoing modification programs and initiates funding for Improvements and continues the Inertial Measurement System Replacement program. A-7 (FY 1990 - \$56.7 million; FY 1991 - \$22.5 million). FY 1990 provides the Low Aititude Night Attack (LANA) depot capability, Gear Up continues

includes the Low Altitude Safety and Targeting Enhancement for ground collision The FY 1990 program fuel the avoidance and starts the NAVSTAR GPS modification. FY 1991 continues A-10 (FY 1990 - \$53.3 million; FY 1991 - \$20.6 million). safety modification and the NAVSTAR GPS.

F/RF-4 (FY 1990 - \$94.7 million; FY 1991 - \$107.9 million). The FY 1990 program initiates three new modifications: replacement of the current F/RF-4 ALE-46 Radar FY 1991 funds continue the above new modifications, initiate the Electrical Distribution System Reconfiguration Receiver (RWR) with a new RWR, NAVSTAR GPS and the F-4G/F-16 Targeting Model. and Environmental Control System modification and continue funding for various safety, Funding is continued for the Navigation Weapons Delivery System (NWDS) and reliability and maintainability improvements. reliability and maintainability improvements. Warning

continues the Muiti-Stage improvement Program to the F-15C/Ds to provide continued various safety, reliability and maintainability improvements. The latter includes improvements to the Radar Receiver System, Electric Lighting and Circuitry Safety, Wing Fuel Transfer Pump and various modifications that are also being incorporated (JIIDS) The FY 1990 combat effectiveness, the Joint Tactical Information Distribution System F-15 (FY 1990 - \$254.8 million; FY 1991 - \$254.6 million). into the production line F-15E aircraft.

and various reliability improvement modifications. The FY 1991 program continues the Muiti-Stage Improvement Program, the begins an HF Communication modification. Dispensers Chaff/Flare

F-16 (FY 1990 - \$228.1 million; FY 1991 - \$300.7 million). FY 1990 continues the modifications for the Advanced Radar Warning Receiver, Airborne Self-Protection Jammer NAVSTAR Global Positioning System, ALE-47 Flare/Chaff Dispensing System and Standard and continues several reliability, maintainability and safety modifications. Ring Laser Gyro modifications will be initiated. The FY 1991 F-16 program continues to fund all ongoing modifications programs and initiates one reliability and maintainability modification, the improved Main Aircraft

The FY 1991 program follow-on funding for the Avionics Modernization Program (AMP) and provides completes the AMP modification and continues the reliability and maintainability F-111 (FY 1990 - \$83.8 million; FY 1991 - \$134.2 million). The FY 1990 The new start reliability and maintainability modifications. the Countermeasures Dispenser and NAVSTAR GPS. continues includes for four

Recording System (MADARS); a safety enhancement to the pylon, and the Automatic Funding is also continued for eight C-5 (FY 1990 - \$55.7 million; FY 1991 \$56.3 million). The FY 1990 funding continues efforts on a reliability improvement for the Maifunction Detection, Analysis Communications Processor operational improvement. reliability and maintainability modifications.

The FY 1991 program continues funding for MADARS, Expanded Fan Speed Indicator, Pylon Fire Safety improvement and six reliability and maintainability modifications. C-141 (FY 1990 - \$31.2 million; FY 1991 - \$42.7 million). The FY 1990 program continues modifications to the Ail Weather Landing System/Autopilot and the Automatic Quantity Indicating System is initiated. The FY 1991 program continues funding for A reliability/maintainability improvement to these three modifications. Communications Processor.

A/T-37 (FY 1990 - \$16.9 million; FY 1991 - \$19.6 million). FY 1990 continues the reliability/maintainability Structural Life Extension Program (SLEP) to ensure the service life of the I-37 the Simulator Computer Replacement is also continued. initiates a safety improvement to the Redundant Elevator Control System. The safety structural problems. preclude flight improvement for

Replacement Computer Simulator Redundant Elevator Control System modifications. continues the SLEP, The FY 1991 program

The FY 1990 program Computer Replacement and the Very-High Frequency Omni-directional Range/ will redesign and strengthen structural components of the cockpit enclosure, instrument Landing System Replacement. FY 1990 initiates a safety modification reliability/maintainability improvement to the Engine Stage II Compressor Blade. including \$12.7 million; FY 1991 - \$21.8 million). improvements reliability/maintainability (FY 1990 continues

Enclosure, Computer Replacement and Stage II Compressor Blade modifications. continues funding for the Cockpit The FY 1991 program

Airborne Command, Control and Communications Capsules, Microwave Landing System, APQ-FY 1990 continues funding for the Seif-Contained Navigation System (SCNS), the HF Auto Comm Processor, FY 1991 Will begin the Have System, 122 Radar, ASD-5 Replacement Low Light Level TV, Autopilot, Electrical - \$118.3 million; FY 1991 - \$128.2 million). Quantity and several other reliability improvements. radio replacement for the ARC-186 VHF AM/FM radios. (FY 1990 C-130

GPS. NAVSTAR reliability new start will begin for the Digital Instrument Display. FY 1991 continues funding for the above programs as well as

- \$118.1 million; FY 1991 - \$63.5 million). This funding support eight C-130 Special Operation Forces to required C-130 (FY 1990 provides funds modifications.

This program includes modification to over 25 subsystems necessary to Funding in FY 1990 Incorporate the new engine. It provides an increase of off-load capability equivalent the current KC-135A configuration. Other modification aircraft with C-135 (FY 1990 - \$ 485.5 million; FY 1991 - \$497.1 million). is for continuation of the re-engining of the KC-135 tanker and one half times programs being continued are Automatic Data Processing and MILSTAR for the EC-135. FY 1990 initiates funding for the NAVSTAR Global Positioning System, Automatic Communications Processor, Ground Collision Avoidance System, Microwave Landing System The FY 1991 program continues modifications and initiates the High Power Transmit Set modification. initiates funding for the NAVSTAR Global Network. Emergency

C-137 (FY 1990 - \$1.7 million; FY 1991 \$1.7 million). The FY 1990 and programs fund Federal Aviation Administration (FAA) directed service builetins are issued against all C-137 type commercial and military aircraft.

continuation of the Cargo Loading System, Automatic Communications Processor and FAA FY 1990 KC-10 (FY 1990 - \$12.1 million; FY 1991 - \$6.6 million). directed service builetins.

Processor Communications The FY 1991 program continues the Automatic initiates funding for NAVSTAR GPS.

System Replacement, Ultra High Frequency and Very High Frequency Communications, Weather Radar Replacement and Distance Measurement Equipment of communications/avionics upgrades including the Very-High Frequency Omni-Directional FY 1990 continues a number The FY 1991 program provides funding for FAA directed service bulletins. C-9 (FY 1990 - \$5.7 million; FY 1991 - \$1.4 million). Range/Instrument Landing

C-12 (FY 1990 - \$3.5 million; FY 1991 - \$1.0 million). The FY 1990 program of existing engines to a standard initiates an enhancement to navigational capability by installation of the continues the engine provides for conversion The FY 1991 program commercial configuration. System and

The FY 1990/1991 programs provide for low cost safety, reliability and maintainability modifications. C-18 (FY 1990 - \$0.2 million; FY 1991 - \$0.2 million).

C-20 (FY 1990 - \$0.2 million; FY 1991 - \$0.2 million). The FY 1990/1991 programs provide for low cost safety, reliability and maintainability modifications.

FY 1990 provides for a engine. FY 1991 funds are for FAA directed Service will improve C-21 (FY 1990 - \$3.9 million; FY 1991 - \$0.1 million). FY Digital Electronic Engine Control (DEEC) modification which the operational performance of

initiates the Electronic Support Measures, a joint US/NATO program which will allow ground The FY 1990 the E-3 to passively detect, locate, and identify airborne, seaborne and emitters, NAVSTAR GPS and Replacement of Magnetic Tape Transport. E-3 (FY 1990 - \$36.5 million; FY 1991 - \$104.2 million).

1991 program continues Electronic Support Measures, NAVSTAR GPS and Have Information Distribution System and primary Memory Upgrade modifications for Block 30/35. Tactical Joint 1991 program initiates the The FY The FY

- \$18.2 million; FY 1991 \$37.8 million). The FY 1990 program continues the MILSTAR UHF transition equipment and Worldwide Airborne Command Post The FY 1991 program continues the Nuclear Detection System and MILSTAR modifications and funds NAVSTAR GPS. programs. Processing E-4 (FY 1990 Data Automatic

NAVSTAR the funds program 1990 The FY Positioning System (GPS) capability E-8 (FY 1990 - \$.8 million).

The FY 1990/1991 programs provide for low cost safety, reliability and maintainability modifications. - \$0.7 million; FY 1991 \$0.6 million). (FY 1990

Service Life Crashworthy Fuel System and Engine Torque Extension program (SLEP), Crashworthy Fuel System and Engine Torque Indicator. 1990 191 - \$6.9 million). The FY improvements including the H-53 (FY 1990 - \$31.0 million; FY 1991 - \$6.9 the reliability/maintainability funding for continues

¥ programs contain funding for the NAVSTAR Global Positioning System. - \$4.6 million). MH-60 (FY 1990 - \$7.2 million; FY 1991

million; FY 1991 - \$3.8 million). The FY 1990 program countermeasures 0V-10 (FY 1990 - \$2.1 million; FY 1991 - \$3.8 million). Indinitiates funding for the HAVE SYNC program which improves electronic capability. FY 1991 continues funding for the HAVE SYNC program. \$2.1 (FY 1990

The FY 1990 program in the Undergraduate Navigation Trainer Simulator, initiates a safety modification to the Attitude Heading The FY 1991 program provides continued funding for FAA directed service Reference System and continues Federal Aviation Administration (FAA) directed Continues funding for the replacement of the outdated computer in bulletins. TR-1 (FY 1990 - \$22.3 million; FY 1991 - \$18.8 million). The FY 1990 program nues modifications for Aircraft Weight Reduction, the NAVSTAR Global Positioning Airborne Recorders, System, an improved sensor system called Senior Glass, Update and Advanced Defensive System.

FY 1991 program continues on-going modification programs for NAVSTAR Global Positioning System, Advanced Defensive System, Senior Glass and Airborne Recorders.

Have Quick New Control Head; Aircrew Eye/Respiratory Protection (AERP); Have Quick II Faster Hopping and Increased Power; Improved Detection ALR-46; TTU-205 Field Test Set; The FY 1990 program initiates funding for Civil funds are required for continuation of previously initiated modifications as follows: Upgrade MAU-12 Equipment OTHER AIRCRAFT (FY 1990 - \$120.9 MILLION; FY 1991 - \$79.0 million). the Reserve Air Ficet (CRAF) equipment enhancements and improvements to ALE-40 Deficiencies; AAQ-10 Common Module Upgrade; Support FY 1990 program also contains the MILSTAR program. of Paper Tape Input. Replacement

Equipment Improved Detection ALR-46; ALE-40 Deficiencies; AAQ-10 Common Module Upgrade; Support Equipment Power: CRAF MILSTAR; AERP; and increased The FY 1991 program continues funding for Enhancement; Have Quick II Radio Faster Hopping Upgrade; and MAU-12 Bomb Rack. FY 1990 initiates million). \$5.0 funding for interactive Defensive System (IDAS). SOF Other (FY 1990 - \$6.7 million; FY 1991

Classified Projects (FY 1990 - \$49.9 million; FY 1991 \$49.3 million). These funds are required for the modification of a variety of aircraft and airborne systems sensitivity, require classified missions which, because of their application of special management and security safeguards:

funds These SOF CLASS (FY 1990 - \$9.4 million; FY 1991 - \$9.4 million). The required to support Classified Special Operations Forces modifications. summarizes funds requirements for Fiscal Years 1988, 1989, 1990 and 1991 by aircraft/category: following table

MODIFICATION OF IN-SERVICE AIRCRAFT (\$ IN MILLIONS)

Aircraft/Category	FY 1988	FY 1989	FY 1990	FY 1991
B-1	\$ 14.5	\$ 24.5	\$ 73.3	\$ 108.7
B-52	. 247.2	209.6	218.7	.74.3
FB-111	2.1	0	0	0
A-7	10.7	25.2	26.7	22.5
A-10	15.2	22.9	53.3	20.6
F/RF-4	9.1	16.5	94.7	107.9
F-5	2.4	0.2	0	0
F-15	120.3	174.2	254.8	254.6
F-16	73.3	167.5	228.1	300.7
F-111	250.3	124.3	83.8	134.2
C-5	16.9	6.66	55.7	56.3
C-141	6.0	20.1	31.2	42.7
SOF-141	16.2	20.7	0	0
A/T-37	8.5	12.9	16.9	19.6
1-38	16.6	19.8	12.7	21.8

Alrcraft/Category	FY 1988	FY 1989	FY 1990	FY 1991
C-130	100.9	121.3	118.3	128.2
SOF-130	121.0	106.8	118.1	63.5
C-135	762.2	784.8	485.5	497.1
C-137	. . 8	2.0	1.7	1.7
KC-10	11.9	26.0	12.1	9.9
6-0	0.5	6.7	5.7.	4.
C-12	0	0	3.5	1.0
C~18	0	0	0.2	0.2
C-20	0	0	0.5	0.2
C-21	0		3.9	0.1
VC-25A	0	1.0	0	0
E-3	21.8	16.4	36.5	104.2
E-4	0	49.0	18.2	37.8
E-8	0	0	0.8	. •
H-1	0.7	4.0	0	o .
H-3	0.2	0	0.7	9.0
H-53	0	30.3	31.0	6.9

Aircraft/Category	FY 1988	FY 1989	FY 1990	FY 1991
SOFH53	0	8.5	0	0
Н-60	0	0	7.2	4.6
01~10	o	0	2.1	3.8
T-43	9.0	4.9	10.2	0.3
TR-1	6.6	20.3	22.3	18.8
ОТНЕЯ	43.9	57.4	120.9	79.0
SOFOTH	0	0	6.7	9.0
CLASSIFIED	42.0	83.3	49.9	49.3
SOFCLF	11.6	18.0	4.6	4.6
TOTAL	\$ 1933.2	\$ 2275.5	\$ 2245.0	\$ 2183.5

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STATUS OF AIRCRAFT MODIFICATION PROGRAMS FY 1988 Modification of Aircraft Programs as of 30 November 1988

Expenditures Obi igations Value Total (\$ in millions) Reprogramming Total Appropriated Program Total

Activity 5 Budget

Program

\$1396.1 \$1933.2 1971.3 P-1 No 24-58

\$107.6

- 15.1: Reprogramming for Space Boosters

-/Adjustments result from the following actions:

- 17.7: Reprogramming for MILPERS

. 5.1: Reprogramming for O&M

4.8: Reprogramming for INF Treaty & DODDS School

Equipment and Facilities to cover the ALQ-172 modification program Reprogramming from the ALQ-172 program in BA 7, Aircraft, Support + 4.6:

STATUS OF AIRCRAFT MODIFICATION PROGRAMS FY 1989 Modification of Aircraft Programs as of 30 November 1988 (\$ in millions)

Expenditures	\$. 7
Obligations	\$ 78.0
Total	\$2275.5
1/ Total Reprogramming	+81.2
Total Program Appropriated	\$2194.3
Program	Budget Activity 5 P-1 No 24-58

1/Adjustments have been made for the following reasons:

Anticipated reprogramming action for F-16 Airborne Seif-Protection Jammer +102.4:

9.0: Inflation reduction

- 6.3: Reprogramming for TACIT Rainbow

Congressional reduction for Consultant/Advisory Services 1.0:

4.9: Anticipated reprogramming for MILPERS

FY1991 Estimate - \$3,680,918 FY1990 Estimate - \$3,966,968 FY1989 Estimate - \$2,994,123 FY1988 Actual - \$2,348,176

ACTIVITY: Aircraft Spares and Repair Parts

Investment items are defined as introduced to the inventory for the first time as a result of new aircraft, modifications, new endines and engine modules to support initial operations of new aircraft; and new spare parts categories: initial and replenishment spares. The initial spares category funds whole spare second category, replenishment spares, provides follow-on spares support for all aircraft and aircraft and aircraft spares account finances peacetime spares and This activity provides funds to buy spare engines and other investment support equipment, and other production charges (e.g., electronic countermeasure pods and special "black" systems). Additionally, initial spares fund inventory level increases referred to as "new acceptance spares" for additional end items (e.g., more F-15s). The repairable assemblies that are centrally procured and managed. The account has two items used to repair aircraft and aircraft support equipment. wartime spares requirements. PURPOSE AND SCOPE:

JUSTIFICATION OF FUNDS REQUESTED: The initial spares segment of the account has four parts. "Common Ground Support Equipment (GSE) Spares" and "Other Production Spares" comprise parts three and four and also support initial operations inventory increases. All initial spares Any funding shortfalls will equate to lower initial levels of peacetime operating stock and "Initial Weapon System Spares", funds engine spares and modules, aircraft spares, represent supportability for initial operations after aircraft acquisition or modification. and peculiar ground support equipment spares required to support initial operations of new The second part, "Modification aircraft and inventory increases for additional end items. The second part, "Modification Spares", funds spare parts needed during initial operation of modified airborne systems. will constrain weapon system availability, readiness, flying hour execution, and sortie Part one,

ensures weapon systems are ready to perform their wartime mission. Considering a two to three requested for OWRM. The WRSK/BLSS and OWRM categories are the key to wartime sustainability. year procurement leadtime, the FY90/91 funding supports 100% of both the FY92/93 flying hour (BLSS), support the initial 30 days of wartime operations. The FY90 and FY91 funding levels (OWRM), provides spares and repair parts to continue wartime operations until the industrial programs. Of note, this is the first time since FY86 that the POS account has been fully are 9 percent and 5 percent, respectively. The last category, Other War Reserve Materiel category, Peacetime Operating Stock (POS), supports the peacetime flying hour program and second category, War Readiness Spares Kits (WRSK) and Base Level Self-Sufficiency Spares funded and reflects the Air Force's emphasis on maintaining a high state of readiness. base can meet wartime production requirements. Due to fiscal constraints, no funds are The replenishment spares segment of the account has three categories of spares.

The following table compares program funding/requests by fiscal year:

AIRCRAFT SPARES AND REPAIR PARTS (\$ in Millions)

	FY88	FY89	FY90	FY91
Initial Aircraft Spares	452.9	1.001	1528.2	1288.6
Replenishment Aircraft Spares	1895.3	1986.5	2438.8	2392.3
Total	2348.2	2994.1	3967.0	3680.9
	11 11 11 11 11 11 11 11 11 11 11 11 11		onte are nrege	finding rowinsmonts are presented in more detail

The initial spares runding requirements are presented Initial Aircraft Spares: in the following table:

INITIAL AIRCRAFT SPARES

(\$ in Millions)

	FY88	FY89	FY90	FY91
Initial Weapon System Spares	300.9	813.0	1354.5	1065.6
Initial Modification Spares	60.2		111.6	141.8
Initial Common GSE Spares	16.6	27.4	22.1	52.7
Initial Other Production Spares	73.2	72.5	39.8	28.5
Total Initial Spares	452.9	1007.7	1528.2	1288.6

The largest segment of this request is for Initial Weapon Systems Spares. Requested funding of \$1354.5 million in FY90 and \$1065.6 million in FY91 will support initial operations of the in-production aircraft shown in the following table:

INITIAL AIRCRAFT SPARES REQUIREMENTS
(\$ in Millions)

	3	C	0223	0~	<u> </u>	FV90	Ē.	FY91
Aircraft	Proc	Request	Proc	Request	Proc	Request	Proc	Request
AC-130U	ı	t	9	8.9	2	30.1	0	42.4
MC-130H	7	28.5	4	17.6	2	41.1	o	5.7
MH-60G	i	ı	18*	3.5	4	2.8	4	2.2
F-15	42	97.3	36	103.6	36	105.7	36	89.7
F-16	180	164.1	180	213.3	150	250.6	150	178.3
CLASSIFIED PROGRAMS	ţ	1	ſ	ı	1	1	t	1
B-2	1	,	ſ	ı		ı	1	1
C-17A	7	11.0	4	103.7	9	287.7	10	250.5
C-27	f		ı	t	r	10.1	S	10.3
Tanker-Transport Training System	i	1	1	0	14	C	28	0
TOTAL WEAPON SYSTEM SPARES		300.9		813.0		1354.5		1065.6

^{* 9} each MH-60Gs are for the Air Force Reserve

current systems will require initial spares funding of \$40.6 million in FY90 and \$38.6 million totaling \$2245.0 million in FY90 and \$2183.5 million in FY91. The requested amount represents spares valued at \$12.6 million in FY90 and \$38.6 million in FY91. Classified modifications to enhance their effectiveness, modifications to special operations forces aircraft require new million in FY91 to support initial operations for over 200 modifications on various aircraft A minimum spares inventory valued at \$111.6 million is needed in FY90 and \$141.8 The second largest driver of initial spares requirements is the aircraft modification only 61 percent of the PY90 and 80 percent of the FY91 total mod spares requirement.

Night (LANTIRN), \$9.0 million in FY90 and \$5.0 million in FY91. The request also includes \$3.7 million for F-111 Radar Warning Receiver updates in FY90 and \$6.0 million for the NAVSTAR Global Positioning System in FY91. The remainder of the requests support various electronic early-on spares support for the Low Altitude Navigation and Targeting Infrared System for request is for \$39.8 million and \$28.5 million in FY91. This request includes providing The third segment of the request is for Initial Other Production Spares.

The fourth segment, Initial Ground Support Equipment (GSE) Spares support replacement and newly introduced Ground Support Equipment. The request is for \$22.1 million in FY90 and \$52.7

Spares and Repair Parts for Air National Guard and Air Force Reserve:

and wartime mission. Indeed, some Guard and Reserve units have distribution priorities higher than active units. The bottom line is that we compute requirements and buy items to provide that our item specific spares requirements are based upon worldwide need and not broken down by command or component. We buy spares to fill the inventories and provide assets to users balanced support to all Air Force units regardless of the user. In short, our computational Air National Guard (ANG) and Air Force Reserve (AFR). However, it's important to recognize for every Active, Guard, or Reserve unit based on the unit's assigned mission, alert status Within the Initial Spares and Replenishment Spares accounts are dollars to support the based on their designated distribution priority. These priorities are established annually system is "user-blind". To calculate the Air National Guard/Air Force Reserve dollars that are displayed on the we estimate using historical factors for initial modifications spares and cost per flying hour for replenishment spares. President's Budget P-1R Exhibit,

	tes 8.5 17.3 6.9	FY89	5.5 408.9	6.9 374.8	17.3	8.5 8.5	Initial Spares
--	------------------	------	--------------	--------------	------	------------	----------------

was funded at 47 percent, no funding was available in FY89, 9 percent in FY90 and 5 percent in 100 percent of the peacetime operating requirements are funded FY91. Again, there are no dollars available for Other War Reserve Materiel from FY88 through Peacetime Operating Stocks at 79 percent in FY88, 83 percent in FY89, 100 percent in FY90 and requirement and 38 percent of the FY91 requirement. Funding allocations represent financing 100 percent in FY91. For War Readiness Spares Kits/Base Level Self-Sufficiency Spares, FY88 appropriations in FY88 and FY89 and Service reductions based on fiscal guidance for FY90 and in FY90 and FY91 but the FY90/91 Biennial Budget reflects the cumulative effects of reduced FY91. Overall, the replenishment spares account is funded at 43 percent of the total FY90 The replenishment spares funding requirements are presented in more detail in the Replenishment Aircraft Spares: following table:

REPLENISHMENT AIRCRAFT SPARES

·	FY88	FY89	FY90	FY91
POS	1708.2	1986.5	2277.8	2276.9
WRSK/BLSS	187.1	0	161.0	115.4
OWRM	0	0	0	0
TOTAL	1895.3	1986.5	2438.8	2392.3

A complete breakout by weapon system of all requirements and funding follows the narrative discussion.

Peacetime Operating Stock (POS)

peacetime training requirement. The requirement is based on an item-specific, failure/demand supported with FY90 funds, and the FY93 program of 3.4 million flying hours will be supported Failure to provide funds will result in inadequate spares levels to support weapon systems/force structure, continued investment is required for new items in support of sustainability. The largest drivers of the POS spares request are the F-111, C-135, F-15, P-16 and their supporting engines. Even as the Air Force increases its inventory for new average two to three year leadtime, the FY92 program of 3.3 million flying hours will be driven computation that supports the flying hour program leadtime away. Considering an critical combat training. Without these spares, available wartime stocks will be used The FY90/91 replenishment spares program supports 100 percent of the Air Force's excessively to support peacetime combat training, degrading both readiness and modifications or changing item requirements for existing inventory. with FY91 funds.

WRSK/BLSS is the War Readiness Spares Kits/Base Level Self-Sufficiency Spares (WRSK/BLSS): WRSK/BLSS is segment of war reserve materiel maintained at base level for units tasked with wartime missions.

- items to be included in the WRSK. These represent only a small portion of the total number of spares used on a day-to-day basis in peacetime. The quantity of items included in the WRSK opposed to Remove, Repair and Replace (RRR). The WRSKs are configured and include both the RR the wartime flying hour program, base repair time, and item pipeline time. These factors are specific units tasked to deploy for the first 30 days of a war. The basic configuration of a WRSK is determined by the maintenance concept of the spares, i.e., Remove and Replace (RR) as The using major commands and the Air Force Logistics Command determine those essential are computed using factors such as item wartime failure rates, number of items per aircraft, reviewed annually with the using commands and System Program Manager to insure that item mix War Readiness Spares Kits are air transportable packages of spares that will support and RRR maintenance concepts depending on the base level repair available at the deployed and quantities support the wartime scenario.
- but also consider existing peacetime capability. Those units which are authorized a WRSK are in-place. BLSS requirements consider the same factors as those used in the WRSK computation, assets to support the initial increased wartime activity for units that will fight the war Base Level Self-Sufficiency Spares (BLSS) are spares designed to augment peacetime

C-17s, F-111s, B-52s, KC-135s and Special Operations Forces (SOF) aircraft will be procured. shortfalls in FY88 and the zero funding in FY89. Approximately 27 percent of new WRSK/BLSS against the total FY90/91 War Readiness Spares Kits/Base Level Self-Sufficiency (WRSK/BLSS) requirement of \$1860.0 million in FY92 (5 percent). FY90/91 marks the third and fourth consecutive year of no funding for strategic, mobility, The FY90/91 Biennial Budget provides funding levels of \$161.0 million and \$115.4 million kits authorized for FY91/92/93 new aircraft deliveries and new beddowns of F-15s, F-16s, The funding represents a very minor, but essential, start toward recovering from the tactical and SOF kit updates.

Other War Reserve Materiel (OWRM)

levels and WRSK/BLSS levels. The Defense Guidance constrains the requirement objective based Like WRSK/BLSS, OWRM requirements are also jointly reviewed by the using major satisfy the mid-term sustainability objectives although no funding is requested due to fiscal OWRM is the prestocked segment of war reserve materiel stored at the Air Force Logistics resulting OWRM requirements are then reduced by assets available from production, peacetime on mid-term and long range resource plans. For FY90/91, OWRM requirements reflect needs to Command (AFLC) depots. These spares are required to sustain forces at wartime levels after day 30 of the war and until the industrial base can be expanded to satisfy wartime commands and AFLC to ensure only combat essential items are designated for OWRM. requirements.

(In Thousands of Dollars)

Program Estimate - FY 91 \$1,321,672

Program Estimate - FY 90 1,428,919

Program Actual - FY 88 3,445,477

ACTIVITY: Aircraft Support Equipment and Facilities

PART I PURPOSE AND SCOPE

peacetime training; and for other charges such as electronic countermeasure equipment. The activity also provides for procurement of flight simulation equipment for aircraft that are no longer in production and components; for refurbishment and rehabilitation of Government owned industrial machinery, equipment and This activity provides for common support equipment required to service and test aircraft and their facilities required in the manufacture of items funded by this appropriation; for those war consumable items required to be on hand for immediate use in the event of war and to replace those consumed in for programs not associated with one specific weapon system.

PART II JUSTIFICATION OF FUNDS REQUESTED

The estimate for this activity is comprised of the following items: (In Millions of Dollars)

LINE ITEM	FY 1988	FY 1989	FY 1990	FY 1991
Common Ground Equipment	\$194.1	\$234.7	\$298.5 100.2	\$347.6 141
Common Ground Equipment (SOF)	7 7	23.2	57.6	43.3
Mar Consimables	29.0	20.4	51.9	53.7
Other Production Charges	2,977.3	1,075.6	673.5	657.8
Other Production Charges (SOF)	2,3	5.6	1 .00	9.6
Common ECM Equipment	197.4	248.5	228.8	195.6
ACTIVITY TOTALS	\$3,445.5	\$1,619.3	\$1,428.9	\$1,321.7

Common Ground Equipment

while on the ground. Aircraft support equipment is concentrated in the following Federal Stock Groups (FSG): peculiar, for out-of production aircraft, as well as common support equipment for new aircraft entering the inventory. The equipment is used on the flight line and in maintenance shops. The program also provides for the procurement of the flight simulators and other training devices for the B-1B and other out-of-production equipment includes items that are required to assist or provide a service or maintenance to a weapon system This program is for the procurement of organizational and base level support equipment, both common and On an exception basis, the program is used to procure depot support equipment. Support aircraft models.

platforms, slings).	
it (trailers, pla	
uipmen	
ng, and ground handling ec	
unching, landing	
Aircraft la	
FSG 17 -	

FSG 41/45 - Compressors, pumps, and air conditioners.

Maintenance and repair shop equipment (test stands, maintenance stands, fixtures, noise suppressors). FSC 49

Electrical generators and power distribution equipment, instrument and laboratory equipment, hardness testers and non-destructive inspection equipment. FSC 61/66

Gauges, nitrogen servicing units, and specialized tools. Other FSGs -

The following table shows a comparison, by year and category, for support equipment:

(In Millions of Dollars)

NSC	DESCRIPTION	FY 1988	FY 1989	FY 1990	FY 1991	
17 41/45 49 61/66 Other Com Train Equip	Ground Handling Equip Air Cond, Compressors Maint & Rep Shop Equip Power & Distrib Equip Other Natl Stock Gps Simulators	37.0 19.6 #22.0 22.0 63.4	29.1 14.9 64.9 27.7 92.4 5.6	24.3 21.1 94.0 114.7 44.3	12.9 24.2 80.8 165.6 61.8 2.3	
TOTAL COMMON GROUND EQUIPMENT	***	194.1	234.7	298.5	347.6	

*May not add due to rounding.

Common Aerospace Ground Equipment - SOF

(SE) peaks in FY 90 with the procurement of the majority of all SE for avionics and electronics warfare systems for the MH-53J, the C-139E, the HC-130P/N, and the C-141B. The peak in FY 90 is accentuated by the addition of \$53M to provide for the SOF Aircrew Training System. Both aspects of the FY90/91 program; the continued procurement of critical SE and the non-recurring investment FY 89 - 91 are the critical years in developing a supportable Special Operation Force structure, postured for sustained operations. The nominal funding line for SOF common support equipment in aircrew training, are indispensable components in establishing a viable and effective low intensity military option.

(In Millions of Dollars)

FY 1991	14.1
FY 1990	109.2
FY 1989	14.3
FY 1988	0.4
	Common Aerospace Ground Equipment - SOF

INDUSTRIAL RESPONSIVENESS

supplying reliable, cost-effective, systems and components to operational commanders in peacetime and national emergencies. The program acknowledges the industrial base as a vital element in war government-owned industrial plants, support for the Air Force Manufacturing Technology (MANTECH) and Industrial Modernization Incentives Programs (IMP), Production Surge and industrial preparedness base, make recommendations to resolve industrial deficiencies and bottlenecks, and where appropriate, execute plans of action designed to enhance the industrial base. Funds in this appropriation are to deterrence and sustainability. Major elements in the overall program include management of thirteen The Air Force Industrial Base Program (IBP) combines the resources of several appropriations to These activities characterize the critical sectors and industries within the industrial support the aircraft procurement segment of the Air Force IBP. Although the elements of cost are create a comprehensive IBP. The goal being to ensure that the defense industry is capable of broken down more finely, in FY 90-91 three basic activities are to be funded through this appropriation:

- operated industrial facilities. These plants are the backbone of AF weapon system assembly for the B-1B, B-2, F-15, F-16, Harpoon, F-18, F-111, C-130, C-5B, cruise missiles, jet engines, Minuteman, hydrazine, Maverick, Phoeniz, AMRAAM, and TOW systems. Funds are also provided for the packing, (1) Air Force Industrial Plants. Consists of repair and expansion, major rehabilitation, environmental compliance, equipment movement and energy conservation at 13 DOD-owned, contractorcrating and handling required to prepare and transfer idle government-owned equipment to other locations.
- (2) Industrial Planning. Provides for analysis of problems, constraints, and opportunities in the aircraft sector to ensure the base can produce in peacetime and can accelerate deliveries of critical The collection, maintenance and use of this data is essential to support affordable sustainability and readiness. items during national emergencies.
- contractual link to encourage more aggressive industrial investments by DoD contractors. The program disincentive to invest in cost-reducing, expensive capital equipment. Industry also copes with uncertainties in forecasting future DoD business. The purpose of IMIP is to mitigate the effects of (3) IMIP or Technology Modernization: IMIP is a joint venture between government and industry to accelerate the implementation of modern equipment and management techniques. IMIP provides a offers financial incentive to achieve cost reduction through investment in productivity enhancing equipment. Defense contractor profits are to a large extent a function of their costs. This is negative incentives by sharing productivity-related savings.

UNCLASSIFIED

			PROGRAM COST BREAKDOWN	BREAKDOWN		DATE JAN 89
Ø @	APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCHEFUENT BEAC 1488	TIVITY PACE 1488		P-1 17EM	P-1 ITEM NOMENCLATURE INDUSTRIAL RESPONSIVENESS	
1		_		(Total c	(Total cost in thousands of dollars)	ollare)
	ELEMENT OF COST	TIDENT	FY 1988	FY 1989	FY 1990	FY 1991
1 1				QTY TOTAL COST	9TY TOTAL COST GTY TOTAL COST GTY TOTAL COST GTY TOTAL COST	QIY TOTAL COST
أنفا	Expansions	<u>\$</u>	•		1.633	1.230
ΔŤ	Packing, Crating & Handling	788	.	.579	2.348	1.593
C) OÈ	Capital Type Rehabilitation	3000	1.594	6.671	29.196	12.300
or 🕦	Replacement & Modernization	986	•	•	•	•
	Pianning	6006	2.800	986.	3.101	3.523
144 (A	Environmental Protection	7666	25.188	3.629	6.592	9.351
	Industrial Modernization (IMIP)	8000	12.680	9.888	14.702	15.351
i a i	Energy Conservation	88	6	•	•	S
<u> </u>	TOTALS		41.412	25.220	57.566	43.348

DAISON NGSIFIED

EXHIBIT P-22

USAF FY 19	90 FACILITY PRO	DJECT DA	TA			i	Jul 88
3 INSTALLATION AND LO Air Force Plant 4 Fort Worth TX		}	MPC :	ct titi 1000 E Securi	xpar	nsion Lighting	- 1 <u> </u>
5 PROGRAM ELEMENT 0708011F	6 CATEGORY CODE 221-221	PROJECT				9730	-
	T ESTIMATES						
	ITEM		U/M	QUAN	TITY	UNIT COST	COST (\$000)
Add Security Light	ing in Four Areas		L/S				\$730.00
	٠.						
		,					
••		·/					

Provide and install additional exterior security lighting in each of the following areas:

Area 1 - The area east of Buildings 162-167 (aircraft run stations).

Area 2 - The area around the domestic water supply facilities (Bldg 40 - Pump House, Facility #39: two 200,000-gallon reservoirs, and Facility #151: one 2,000,000-gallon reservoir).

Area 3 - Parking Lot #5 plus adjacent ramp and work area (northwest perimeter area).

Area 4 - The area along the shore of Lake Worth (north perimeter).

BASIS OF NEED:

The additional lighting is required to serve as a deterrent to illegal/unauthorized activity and to aid security personnel and employees in the detection of any illegal/unauthorized activity in these areas.

IMPACT IF NOT PROVIDED:

The facility will continue to be in violation of security lighting practices and will remain as a high risk to high value property damage and possible production shut down.

DD : 300 x 1391

1. COMPONENT USAF	FY 19	º FACILITY PRO	JECT .	DATA		207	DATE 7 Jul 88
3 INSTALLATION Air Force Plan Ft Worth TX		CATION		# PROJE mental, Undergr	CTIITLE MP Removal ound Stor	C 7000 E and Repl age Tank	Environ- lacement of cs, PH III
5 PROGRAM ELEM 0708011F	ENT	6 CATEGORY CODE 221-221	7 PROJI N/A	ECT NUMB		730.00	ST (SOOQ)
9 COST ESTIMATES							
		ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
		oval of Undergroun	d	L/S		·	\$730.90

This project is the last phase of three-year plan to replace all underground tanks that store petroleum or hazardous chemical products. Requirements for this last phase are for replacement and closure of approximately five (5) tanks with associated monitoring and testing of the tanks. Wherever possible, tanks will be replaced with above ground storage protected with secondary containment. If below surface storage is required, preference will be given to vaulted storage with secondary containment and inspection provisions to be provided at the vault.

BASIS OF NEED:

The Hazardous and Solid Waste Amendments (HSWA) of 1984 require the Environmental Protection Agency (EPA) to publish regulations for underground tanks that store petroleum products or chemical products defined as Hazardous by Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The law is based on the concept that all underground tanks will eventually leak, causing release of a hazardous material to the environment. Regulations will require specific leak detection or tank testing for existing tanks. Releases from underground tanks will continue to require expensive remedial standards and leak detection requirements. This project will eliminate or minimize the risk of leaks from underground tanks.

IMPACT IF NOT PROVIDED:

Continued risk of tank leakage, resulting in expensive remediation efforts.

I COMPONENT USAF	FY 1	929 FACILITY PR	OJECT	DATA		2 DATE 07 Jul 88
J INSTALLATION Air Force Plan Ft Worth TX	ANO L	OCATION		4 PROJECT TIL MPC 1000 Ex Construct S	pansion	fice Annex
5 PROGRAMELEN 0708011F	AEŅT	6 CATEGORY CODE 221-221	7 PROJ N/A	ECT NUMBER	\$300.00	r cost (soog))
		9 CO	ST ESTIMA	TES		

		ITEM				U/M	QUANTITY	UNIT COST	COST (\$000)
Construct 9 and 10.	security	office	annex	between	Bldgs	LS			\$300.00
				,					
							•		
									!
							1		

Provide approximately 1,800 square feet of additional office space for AFP 4 security functions by expanding and adjoining Bldgs 9 and 10. This will include a concrete floor slab, steel frame structure, exterior brick walls and a built-up roof to enclose the area between the two buildings. Provide appropriate utility systems for the new office area. Rehabilitate and remodel the existing buildings, approximately 3,900 square feet in Bldg 9 and 5,500 square feet in Bldg 10.

BASIS OF NEED:

The implementation of secure programs at AFP 4 has generated a requirement for additional office space to house an expanded Investigative Service plus a special DoD Security Task Force. These individuals require immediate access to the records and other security functions which are located in Bldgs 9 & 10. It would not be feasible to relocate the security functions because no space is available in other facilities and all of the communication, monitoring, and signal networks are terminated in Bldgs 9 and 10. Expanding and adjoining Bldgs 9 and 10 will provide the required space without disrupting other security functions. Rehabilitation and remodeling of Bldgs 9 and 10 is required to provide the most efficient and effective utilization of the available office space.

IMPACT IF NOT PROVIDED:

If not provided, efficient security operations in support of the F-I6 program will be jeopardized.

USAF FY 1	990 FACILI	TY PROJECT	DAT	Ά		2 0	7 Jul	88
) INSTALLATION AND L Air Force Pla Ft Worth TX		mer & Ra	ROJE ntal nin	Seco Prote	.E MP onda ecti	C 7000 ryCont	Envir ainmer 11 Tar	on-
5 PROGRAM ELEMENT 0708011F	6 CATEGORY CODE 221-221	7 PROJECT	NUMB	ER	1	1,350.0		
9 COST ESTIMATES								
	ITEM		U/M	QUAN	TITY	UNIT COST	COST (SOO)	
Secondary Contair All Tank Systems.	ment and Rain Prote	ection for	L/S				\$1,350	.00

Provide concrete or asphaltic concrete secondary containment basins or berms, double-walled underground piping, steel frame rain protection covers at approximately thirty (30) storage tank locations.

BASIS OF NEED:

Required to prevent discharge of hazardous substances in accordance with the Clean Water Act. The project will also reduce liability for such releases created by the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

IMPACT IF NOT PROVIDED:

Continued risk of a leak or rupture of an existing storage system that can result in potential discharge of hazardous substances to waters of the contiguous zone of the United States. Such releases will create immediate emergency response needs and create potentially very costly remediation. Undetected slow releases from underground lines can also result in very costly remediation efforts.

USAF USAF INSTALLATION A Air Force Plan Palmdale CA	NO LOC	90 FACILITY P	ROJEC	4 PROJE	CT TITL	pans	07	Jul 88
5 PROGRAM ELEME 0708011F	NT	6 CATEGORY CODE 221-221	7 PAOJ N/A	ECT NUME		8 PI	ROJECT COS	
9 COST ESTIMATES								
		ITEM		U/M	QUAN	TITY	UNIT COST	COST (8000)
Install Auxill	iary	Water Well at Site	e 7.	L/S				\$600.00

Provide an approximate 600 ft deep well and water distribution system to connect to existing potable water system.

BASIS OF NEED:

Provides a backup potable water supply for the existing single well at Site 7 which is one of the few sites which have only one water well at AFP 42. Back up water supply is mandatory for the increasing mission.

IMPACT IF NOT PROVIDED:

Lack of a backup potable water source could result in extensive mission production delays.

BP 1700 WAR CONSUMABLES FY90/91 PRESIDENT'S BUDGET (\$ MILLIONS)

	PY 1	1988	FY 1989 QTY \$	68 8-	FY1990 OTY \$	066	PY	1991
FUEL TANKS/PYLONS 370 GALLON TANK/PYLON/UNIT (F-16) CENTERLINE PYLONS (F-15)	2902	20.933 3.372	0 0	1 1 0 1	1500	16.032	1560	16.771
MISSILE LAUNCHERS LAUNCHER ELECTRONICS ASSEMBLY (LAU-117)	1035	4.695	i 0 1	0 1	100	: 0	.0.	-0-
LAU 128/129 (F-15/F-16)	-0-	. 1 0	470	20.399	888	35.892	816	36.891
TOTAL		29.000		20.399		51.924		53.662

Other Production Charges

This program provides for items, such as Classified Projects, Alternate Mission Equipment, and Range Improvement, that are not directly related to other procurement lines in this appropriation and The NAVSTAR GPS, that are used by more than one weapon system and managed as end items themselves. cannot be reasonable allocated and charged thereto. It also includes items, such as LANTIRN, following table provides a comparison, by fiscal year, of the items in this program:

(In Millions of Dollars)*

	FY 1988	FY 1989	EY 1990	FX 1991
Clareifted Draients	2098.4	279.2	219.8	270.4
Clabbilled Hojects	6.0	7.9	9.5	6.6
Range Tennovement	15.6	16.8	6.4	7.5
LANTER	748.5	685.0	353.2	277.9
NUTD/CAVB/CTVS	L. 41	3.1	15.1	2.9
MANCTAR Clobal Positioning System	69.3	54.1	h. 9h	41.0
101001 10010		1	<u>4</u> د.	17.2
UDU-13 TR-1	10.0	1	10.7	8.1
The Offensive	1	8.4	1.2	Ł
TACTT RATURDA	•	74.45	7.0	18.9
Sailplanes	0.1	1	1	1
Total Other Production Charges	2977.3	1075.6	673.5	8.759

*Dollars may not add due to rounding

Classified Projects:

Includes the Air Force Tactical Improvement Program and national defense projects which are classified Special Access.

ECM Support:

The program procures electronic warfare and airborne photography/reconnaissance equipment to provide countermeasure capabilities against changing enemy electronic defenses or for other unpredictable and urgent operational requirements.

Range Improvement:

This is a joint Air Force/Navy program to procure pods which provide accurate kill/no kill data for assessment of tactics and aircrew training at the Air Combat Maneuvering Range. The pod is mounted transmits airspeed, altitude, angle of attack, and weapons information to ground stations. on a standard launch rail and

Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN):

ground electro-optical fire control system emphasizing FLIR, terrain following radar, and aircraft The LANTIRN navigation and targeting pods being procured within this project provide an air-tointegration with Head-up Display (HUD) for flying low while critical battlefield targets are acquired, recognized, and weapons are launched.

AVTR/CAVR/CTVS:

the standard combat/training documentation device, and will record cockpit audio as well as video displays. The CTVS is a small solid state TV camera used in the recording of the Head-Up-Display data to be recorded on the AVTR/CAVR. The AVTR/CAVR provide 30 minutes (vice 3 on the gun camera) and the CVTS (Cockpit TV Sensor). The AVTR/CAVR are replacing the traditional film gun camera as recording time which does not need processing, and is available for flight debriefing/instruction (Airborne Video Tape Recorder) or its compact version the CAVR (Compact Airborne Video Recorder), immediately after landing. The use of these systems provides improved cost-effective training documentation to enhance combat capability. The Tactical Air Forces Armament Recording Program Tactical and strategic aircraft are equipped, or are being modified for inclusion of the AVTR emphasized the importance of this requirement. documentation to enhance combat capability.

NAVSTAR Global Positioning System:

initial operational capability in FY 1987 and its full capability in FY 1988. The DoD policy is for GPS to replace all existing radionavigation systems on military aircraft by the mid 90s. This appropriation funds NAVSTAR GPS user avionics for all USAF aircraft plus the Air Force share of GPS (accurate to 16 meters), velocity (.1 meters per sec) and time (.1 microsecond) on a 24 hour per day, all weather, worldwide basis. The GPS satellite segment is in production and will provide an NAVSTAR GPS is a space-based radionavigation system which will provide users their position production start-up costs.

GBU-15 Improved Data Link:

Funds provide improvements to the The GBU-15 is a data link cortrolled precision guided glide bomb. anti-jam capabilities of the data link.

TR-1:

This program provides funds for the modification of the existing TR-1 ASARS radar to give the system a moving target indicator ability, and for the TR-1 reengining.

Training (Offensive):

Funds are to support the Strategic Training Route Complex (STRC), and procurement of Seekscore and routes which will be equipped to provide a multi-threat electronic warfare environment and radar other training equipment. The STRC will be composed of a multitude of interconnecting low level bomb scoring capability.

TACIT RAINBOM:

Funds procure the AGM-136 rotary launchers.

Other Production Charges - SOF:

Funds are for nonrecurring engineering support, software development data and installation efforts for the gunship, and reliability and maintainability efforts.

(In Millions of Dollars)

FY 1991	9.6
EX 1990	ት.6
EX 1989	2.6
FY 1988	2.3
	ges - SOF
	Other Production Charges - SOF
	Other Pr

Common ECM Equipment

Includes the procurement of new pods, such as the ALQ-131 Block II and ALQ-184 to counter the latest Soviet threats. The pods are used on several tactical strike/reconnaissance aircraft. Funds also purchase the ALR-621 self protection suite.

(In Millions of Dollars)

FY -1991	195.6
FY 1990	228.8
FY 1989	248.5
FY 1988	197.4
	Common ECM Equipment

COMPARISON OF FY 1988 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1989 BUDGET WITH FY 1988 PROGRAM REQUIREMENTS AS SHOWN IN FY 1990 BUDGET.

of Dollars)
ğ
(In Thousands
(In
SUMMARY OF REQUIREMENTS
OF
SUMMARY

	Total Program Requirements Per 1989 Budget	Total Program Requirements Per 1990 Budget	Increase + or Decrease -
Combat Aircraft Airlift Aircraft Trainer Aircraft	\$4,450,968 . 655,300	\$4,362,268 654,200 0	-\$88,700 -1,100 0
	12,200	87,200 1,933,207	+75,000 -8,920
Aircraft Spares and Repair Farts Aircraft Support Equipment and Facilities Reimbursable Program	3,492,777 3,492,777 181,000	2,345,477 3,445,477 228,748	-47,300 +47,748
Total Fiscal Year Program	\$13,110,059	\$13,059,276	\$-50,783

EXPLANATION BY BUDGET ACTIVITY

- F-16 (-\$48.7M) being made available for reprogramming to a higher priority effort; and a below threshold reprograming to the MC-130H (+\$10M) to fund a non-recurring cost increase. The decrease is the net result of funds from the F-15 (-\$50M) and 1. Combat Aircraft - (-\$88.7 million).
- 2. Airlift Aircraft (-\$1.1 million). The decrease to the program is the result of a reprogramming action on the C-17 program to make funds available for a higher priority effort.
- 3. Trainer Aircraft (\$0 million). No change.
- The increase is the result of a reprogramming action on the C-29 aircraft for procurement of six airplanes to replace obsolete flight inspection aircraft. 4. Other Aircraft - (+\$75.0 million).

- 5. Modification of In-Service Aircraft (-\$8.9 million). The decrease is the result of reprogramming Funds available due to contract savings on the C-130, other actions to higher priority programs. aircraft, F-15, and H-1.
- available for reprogramming by cancellation of a classified program (-\$14.3M) and reductions/slips in 6. Aircraft Spares and Repair Parts - (-\$27.5 million). The decrease is the result of funds being made modification programs that reduced initial spares requirements (-\$13.2M).
- 7. Aircraft Support Equipment and Facilities (-\$47.3 million). The decrease to the FY 1988 program is the result of reprogrammings actions. These funds were made available for higher priority efforts..
- 8. Reimbursable Program (+\$47.7 million). The increase is a result of receipt of more customer orders than anticipated.

COMPARISON OF FY 1988 FINANCING AS REFLECTED IN FY 1989 BUDGET WITH FY 1988 FINANCING AS SHOWN IN FY 1990 BUDGET

	(In Tho	(In Thousands of Dollars)	
	Financing Per FY 1989 Budget	Financing Per FY 1990 Budget	Increase(+) or Decrease(-)
Program Requirements	13,110,059	13,059,276	-50,783
Program requirements (Service Account)	(12,929,059) (181,000)	(12,830,528) (228,748)	(-98,531) (+47,748)
Less: Anticipated Reimbursements	181,000	228,748	447,748 0
Transferred From Other Accounts	<u>.</u>	100,000	+100,000
Add: Transferred to other accounts	29,180 0	227,711	+198,531
Appropriation	12,956,827	12,956,827	0

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1988 program bottom line has remained constant since submission of the FY 1989 Budget. Adjustments by category of financing are explained below.

- 1. Anticipated Reimbursements. The increase of \$47,748 thousand is due to receipt of more customer orders than anticipated.
- 2. Transfer to Other Accounts. The increase of \$198,531 thousand is due to anticipated reprogrammings from the Aircraft Procurement Appropriation.
- Unobligated Balance Transferred from Other Account. The increase of \$100,000 thousand is dut to reprograming for the C-29 aircraft.
- Program Requirements. The decrease of \$50,783 thousand is the result of reprograming actions

COMPARISON OF FY 1989 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1989 BUDGET WITH FY 1989 PROGRAM REQUIREMENTS AS SHOWN IN FY 1990 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Increase + or Decrease -	-\$1,013,508 -8,407 -38 +25,943 +197,067 -144,368 -67,203 -25,109	
Total Program Requirements Per 1990 Budget	\$7,635,644 995,571 9,525 89,840 2,994,123 1,619,315 206,109	
Total Program Requirements Per 1989 Budget	\$8,649,152 1,003,978 9,563 63,897 2,078,401 3,138,491 1,686,518 181,000	
	Combat Aircraft Airlift Aircraft Trainer Aircraft Other Aircraft Modification of In-Service Aircraft Aircraft Spares and Repair Parts Aircraft Support Equipment and Facilities Reimbursable Program Total Fiscal Year Program	

EXPLANATION BY BUDGET ACTIVITY

- funds in accordance with current program priorities; anticipated reprogramming on the MC-130H, (+\$125.0M) to fund cost growth; anticipated reprogramming for reduced inflation (-\$30.7M); anticipated reprogramming Combat Aircraft - (-\$1,013.5 million). The decrease is a result of Congressional adjustments to the (-\$434.8M) to fund higher priority programs; anticipated reprogramming of the F-16 (-\$102.4M) to realign F-16 (-\$376.0M) and classified programs (-\$187.2M); anticipated reprogramming in classified programs from the F-15 (-\$5.0) for higher priority programs; and distribution of Congressional undistributed reductions (-\$2.4).
- 2. Airlift Aircraft (-\$8.4 million). The decrease is a result of a Congressional adjustment to the C-17 (-\$4.0M); anticipated reprogramming for reduced inflation on the C-17 (-\$4.0M), and distribution of Congressional undistributed reductions (-\$.4M)

- 3. Trainer Aircraft (\$0 million). No significant change.
- 4. Other Aircraft (+\$25.9 million). The increase is a result of Congressional adjustments to the FY 1989 request (CAP, +1.3M; MH-60G, +\$24.7M).
- 5. Modification of In-Service Aircraft (+\$197.1 million). The increase is a net result of Congressional adjustments to the C-135 (+\$180.5M) the F-15 (-\$17.4M), the F-16 (-\$13.4M), other aircraft (-\$20.5M) and various others (-\$13.4M); anticipated reprogramming to the F-16 (+\$102.4M) to properly reflect current program priorities; anticipated reprogramming for reduced inflation (-\$8.7M), and other anticipated reprogrammings (-\$12.4M).
- adjustments to the FY 1989 request (-\$204.4M); anticipated reprogramming involving classified programs (+\$121.9M); anticipated reprogramming for higher priority efforts (-\$50.0M); and anticipated reprogramming for reduced inflation (-\$11.8M). Aircraft Spares and Repair Parts - (-\$144.4 million). The decrease is a result of Congressional
- Congressional adjustments to the FY 1989 request (-\$78.3M); anticipated reprogramming for reduced inflation (-\$6.5M); distribution of Congressional undistributed reductions (-\$1.7M); anticipated reprogrammings 7. Aircraft Support Equipment and Facilities - (-\$67.2 million). The decrease is a net result of involving classified programs (+\$15.0M); and other anticipated reprogrammings (+\$4.3M).
- 8. Reimbursable Program (+\$25.1 million). The increase is a result of receipt of more customer orders than anticipated,

COMPARISON OF FY 1989 FINANCING AS REFLECTED IN FY 1989 BUDGET WITH FY 1989 FINANCING AS SHOWN IN FY 1990 BUDGET

(In Thousands of Dollars)

	Financing	Financing	Increase(+)
	Per FY 1989 F	Per FY 1990	or
	Budget	Budget	Decrease(-)
Program Requirements	16,811,000	15,825,595	`50h' 586 -
Program requi rements (Service A ccount)	(16,630,000)	(16,630,000) (15,619,486)	(-1,010,514)
Program requi rements (Reimbursa ble	(181,000)	(181,000) (206,109)	(-25,109)
Less:	,	,	;
Anticipated Reimbursements	181,000	206, 109	+25,109
Transferred from Other Accounts		67,900	+67,900
Add:			
Transferred to Other Accounts		. 365,782	+365,782
Reduction Pursuant to P.L. 100-463		. 5,131	+5,131
Appropriation	16,630,000	15,922,499	-707,501

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1989 program has decreased \$707,501 thousand since submission of the FY 1989 budget. Adjustments by category of financing are explained below:

- Reimbursements. The increase of \$25,109 thousand is due to receipt of more customer orders than anticipated.
- 2. <u>Transferred from Other Accounts</u>. The increase of \$67,900 thousand is due to an anticipated reprogramming into the Aircraft Procurement Appropriation for SOF Combat Talon II aircraft.
- Transferred to Other Accounts. The increase of \$365,782 thousand is due to anticipated reprogrammings Transferred to Other Accounts, the Increase out of the Aircraft Procurement Appropriation.
- The decrease of \$707,501 thousand is the result of Congressional Adjustments to the FY Appropriation. 4. Appropri 1989 Budget.

FLIGHT SIMULATOR DATA SHEET

BUDGET YEAR PROGRAM

Simulator_Model: F-15E Weapon System Trainer

Aircraft_System_Supported: F-15E

and will include Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN) simulation. The trainer will be a modification to the design of the F-15 Operational Description of Simulator: The F-15E WST will train both pilot and weapon system officers Flight Trainer already being manufactured by Loral Corp. Four WSTs will be procured.

<u>Development Status:</u> Testing on units #1 and 2 was completed in FY88. Development of the first full mission capable trainer, unit #3 was begun in FY89. Delivery of units #1 and #2 occurred in FY89 to provide safety of flight training. In FY 1989 a contract for unit

EY_1991	(0)	0	26.1	1	26.1
EY_1990	(0)	0	8.4	1 1	8.4
EY_1989	(1)		58.0	:	58.1
EY_1988	(0)	-	15.1	1	15.2
will be negotiated. Funding Data: (In Millions)	Quantity	RDT&E	Procurement	MILCON	TOTAL

Basis_for_EY_1990/91_Request: In FY 1990 IOT&E testing will occur on unit #3. Updates on units #1 and #2, and delivery of units #3 and #4 will occur.

Contract_Data: FFP to Loral Corp.

Cost History Comparison: N/A

FLIGHT SIMULATOR DATA SHEET

BUDGET YEAR PROGRAM

Simulator_Model: F-16 Weapon System Trainer (WST)

Aircraft_System_Supported: F-16 aircraft.

"Building-Block" and phased approach in consonance with the Tactical Air Forces (TAF) F-16 electronic warfare aspects of their mission. The DRLMS will simulate the Air-to-Ground (A/G) modes and displays of the F-16 Fire Control Radar (FCR) using a Defense Mapping Simulation (DRLMS) and a visual system. The EWTD will be used to train pilots in the visibility take-off landing and emergency conditions. The WSTs are developed using a Description of Simulator: The F-16 WST is comprised of an Operational Flight Trainer (OFT), and Electronic Warfart Training Device (EWTD) and a Digital Radar Landmass Agency (DMA) Digital Data Base (DDB). The visual system permits training in low aircraft deployment plan.

EX_1991	(0)	i	13.9	l	13.9
EY_1990	(†)	1	33.9		33.9
EX_1989	(9)	1	70.8	ı	70.8
EY 1988	(25)	ı	47.5	ı	47.5
elopment_Status: N/A Funding Data: (In Millions)	Quantity	RDT&E	Procurement	MILCON	TOTAL

F-16 WST FY 1990/91 budget is based Basis_for_FY_1990/91_Request: following requirements: F-16C Operational Flight Trainers (OFTs) to provide "safety-of-flight" trainers for active units - Improved Electronic Warfare Training Devices (IEWTDs) for F-16C EW training. Requirement for IEWTDs stressed by F-16 WST General Officer Review, Dec 85.

- LANTIRN simulators to be integrated with Block 40 OFTs to provide LANTIRN training.

- Required to provide "safety-of-flight" OFTs for Block Flight Trainer (OFT) update for modification and Block 40/50 Operational production incorporation. 40/50 aircraft.
- 3 Window Visual System Integrated into WST Block 30/40/50 for realistic mission training.

Contract Data:

F33657-84-C-0173, Options	F33657-82-C-0138, Options	F33657-87-c-0168	F33657-86-C-2141	F33657-81-C-2041	F33657-88-C-0023
4 4 4	F F D	FFP	FPI	FFP	444
OFT B1k 40/50	OFT B1k 30	IEWID	LANTIRN	IDRLMS	VISUAL SYSTEM

AAI Corporation of Cockeysville, MD, and the visual system is built by Evans & Sutherland, Company, Link Division, Houston, Tx. The DRLMS is built by the General Electric Co, Simulation and Control Systems Department, Daytona Beach, Fl. The IEWID is built by the The contractor for the Operational Flight Trainer and LANTIRN simulator is the Singer Salt Lake City, UT.

Cost History Comparison: The changes from FY 90 President's Budget to FY 91 request are required to match aircraft beddown plans.

SIMULATOR_MODEL:_C~17_AIRCREW_TRAINING_SYSTEM

BUDGET YEAR PROGRAM

Aircraft_System_Supported: C-17

<u>Description of Simulator:</u> An Aircrew Training System is being developed to be operated by a contractor, McDonnell Douglas Training Systems, Inc, to provide Qualified Aircrew members. The **Training System** is made up of Computer Based Training (CBT) devices used in a classroom, a cockpit simulator (CSS), Weapon System Trainers (WST), Loadmaster Stations (LST), Cargo Load Model (CLM) and Cargo Compartment Trainer (CCT).

<u>Development Status:</u> Contract was awarded for phase II in FY 89. System Critical Design Reviews will occur in FY 90 and FY 91. First system will be delivered in FY91.

EX_1991	(1)	5.5	37.4	4.2	47.1
EX_1990	(1)	31.8	39.3	1	71.1
EY_1989	(0)	30.0	i	5.0	35.0
EX_1988	(0)	•	ı	ı	1
Funding Data: (In Millions)	Quantity	RDT&E	Procurement	MILCON	Total

C-17 WST FY 1990/91 budget is based on the following Basis for FY 1990/91 Request: requirements:

- Develop Courseware for 10 Pilot, 7 Co-pilot 7 Loadmaster and 3 Maintenance Engine Run courses.
- Development and in plant testing of training media (CBT, CCS, WST, LST, CLM,
- Production of first unit of training media.

<u>Contract Data:</u> FFP contract to McDonnell Douglas Training Systems, Inc., Bedford, Tx on 26 Oct 88 (F33657-88-C0029).